

**CITY OF EL PASO, TEXAS**  
**DEPARTMENT HEAD'S SUMMARY REQUEST FOR COUNCIL ACTION (RCA)**

**DEPARTMENT:** Engineering

**AGENDA DATE:** April 1, 2008

**CONTACT PERSON/PHONE:** R. Alan Shubert, City Engineer (X4423)

**DISTRICT(S) AFFECTED:** Citywide

**SUBJECT:**

That the City Manager be authorized to sign a Fourth Amendment to an Agreement for Engineering Services by and between the **CITY OF EL PASO** and **PARKHILL, SMITH & COOPER, INC.**, for a project known as "**CLOSURE OF CLINT LANDFILL PERMIT 1482**", to increase the contract amount from \$1,023,170.00 to \$1,296,989.00, for a net increase not to exceed **TWO HUNDRED SEVENTY THREE THOUSAND EIGHT HUNDRED NINETEEN AND 00/100 DOLLARS (\$273,819.00)**.

**BACKGROUND / DISCUSSION:**

Following Storm 2006 it was apparent that there were drainage issues potentially affecting the on-going project to close the landfill. The project manager requested the consultant working on the closure project, Parkhill, Smith & Cooper, look into designing drainage improvements. This Fourth Amendment will allocate funds to complete the design of the required drainage improvements. This unanticipated additional work was not included in the scope of the project.

**PRIOR COUNCIL ACTION:**

- Original contract approved May 3, 2005
- First Amendment approved February 7, 2006
- Second Amendment approved October 3, 2006
- Third Amendment approved January 3, 2007

**AMOUNT AND SOURCE OF FUNDING:**

Funding location: DeptID: 34010296, Account: 508027, Fund: 40499, Project: PSWM0003  
Funding Source is Internal Funds

**BOARD / COMMISSION ACTION:**

N/A

\*\*\*\*\* REQUIRED AUTHORIZATION \*\*\*\*\*

**LEGAL:** (if required) \_\_\_\_\_ **FINANCE:** (if required) \_\_\_\_\_

**DEPARTMENT HEAD:** 

(Example: if RCA is initiated by Engineering, client department should sign also)

*Information copy to appropriate Deputy City Manager*

**APPROVED FOR AGENDA:**

**CITY MANAGER:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

CITY CLERK DEPT.  
08MAR21 AM 11:21

**RESOLUTION**

**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF EL PASO:**

That the City Manager be authorized to sign a Fourth Amendment to an Agreement for Engineering Services by and between the **CITY OF EL PASO** and **PARKHILL, SMITH & COOPER, INC.**, for a project known as **“CLOSURE OF CLINT LANDFILL PERMIT 1482”**, to increase the contract amount from \$1,023,170.00 to \$1,296,989.00, for a net increase not to exceed **TWO HUNDRED SEVENTY THREE THOUSAND EIGHT HUNDRED NINETEEN AND 00/100 DOLLARS (\$273,819.00)**.

**ADOPTED** this \_\_\_\_\_ day of \_\_\_\_\_, **2008**.

THE CITY OF EL PASO

\_\_\_\_\_  
John F. Cook  
Mayor

ATTEST:

\_\_\_\_\_  
Richarda Duffy Momsen  
City Clerk

CITY CLERK DEPT.  
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APPROVED AS TO FORM:

  
\_\_\_\_\_  
Cynthia Osborn  
Assistant City Attorney

APPROVED AS TO CONTENT:

  
\_\_\_\_\_  
Alan Shubert, P.E.  
City Engineer

THE STATE OF TEXAS )  
 )  
COUNTY OF EL PASO )

**FOURTH AMENDMENT TO AGREEMENT  
FOR ENGINEERING SERVICES**

**THIS FOURTH AMENDMENT**, made this \_\_\_\_\_ day of \_\_\_\_\_, 2008, by and between **THE CITY OF EL PASO**, a municipal corporation, organized and existing under the laws of the State of Texas, hereinafter called the “**Owner**” and **PARKHILL, SMITH & COOPER, INC.**, a Texas corporation, hereinafter called the “**Engineer**.”

**WHEREAS**, on May 3, 2005, the Owner entered into an Agreement for Engineering Services with the Engineer for a Project known as “**CLOSURE OF CLINT LANDFILL PERMIT 1482**” (the “*Agreement*”), for a contract amount of \$119,192.00 for Phase I; and

**WHEREAS**, the Owner identified the “**CLOSURE OF CLINT LANDFILL PERMIT 1482**” project to be completed in three distinct phases: Phase I (Engineering Study & Report Phase) a preliminary engineering report to establish the basis for which the landfill may be closed; Phase II (TCEQ Permitting Phase) modification of the current MSW Permit No. 1482 for landfill closure as identified in Phase I, and Phase III (Design and Construction Phase) preparation of construction documents and construction administration for landfill closure; and

**WHEREAS**, pursuant to II. A, IV, and Attachment “B” of the original agreement, the parties agreed to proceed from Phase I to Phase II, and from Phase II to Phase III, through written amendment to the original agreement; and

**WHEREAS**, on February 7, 2006, the Owner and the Engineer entered into a First Amendment to the Agreement for Engineering Services to proceed with Phase II of the Project including the preparation of all necessary documentation and submission of the documents to the Texas Commission on Environmental Quality (TCEQ) for a permit modification, for a contract amount of \$144,764.00 for Phase II; and

**WHEREAS**, on October 3, 2006, the Owner and the Engineer entered into a Second Amendment to the Agreement for Engineering Services which authorized the Engineer to provide additional work to complete Phase II, by updating the Site Operating Plan (SOP) to comply with the new rules adopted by the Texas Commission on Environmental Quality (TCEQ), for an additional contract amount of \$7,129.00 for the completion of Phase II; and

**WHEREAS**, on January 3, 2007, the Owner and the Engineer entered into a Third Amendment to the Agreement for Engineering Services which authorized the Engineer to proceed with Phase III of the Project, including the preparation and development of design plans, specifications and construction phase services for the closure of the Clint Landfill facility, for a contract amount of \$752,085.00 for Phase III; and

**WHEREAS**, to complete Phase III the Owner must authorize the Engineer to provide additional design and construction services to include the landfill drainage improvements identified in a drainage study following Storm 2006; and

**WHEREAS**, the parties hereto desire to amend the original agreement, pursuant to Section II. A, to add additional services in the amount of \$273,819.00, for the completion of Phase III, thereby extending the contract value from \$1,023,170.00 to \$1,296,989.00.

**NOW THEREFORE**, in consideration of the mutual promises set forth in this Fourth Amendment and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

**1. Scope of Services.**

The Owner hereby authorizes the Engineer to proceed with the additional work needed to design and construct drainage improvements at the Clint Landfill. The expanded Project Scope is attached hereto as **Attachment "A"**, and made a part hereof for all purposes.

**2. Payments to Consultant.**

The Owner shall pay the Engineer an additional contract amount not to exceed **A NET INCREASE OF TWO HUNDRED SEVENTY THREE THOUSAND EIGHT HUNDRED NINETEEN AND 00/100 DOLLARS (\$273,819.00)**.

Payment for the completion of Phase III services shall be made on a monthly basis. The Owner shall make progress payments upon presentation of the Engineer's detailed invoice and accompanying Summary and Progress Report and the Owner's written approval. The Engineer's fee proposal for the additional services is attached hereto as **Attachment "B"**.

**3. Time of Completion.**

The Engineer shall submit all items identified in Attachment "A" within the following project schedule from the written authorization from the Owner for the Engineer to proceed:

<b>Preliminary Design Phase</b>	<b>76 Consecutive Work Days</b>
<b>Final Design Phase</b>	<b>26 Consecutive Work Days.</b>

**4. Terms and Conditions.**

All terms and conditions of the Agreement and all subsequent Amendments thereto, except as herein revised, shall remain in full force and effect.

**(Signatures following page)**

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**WITNESS THE FOLLOWING SIGNATURES AND SEALS:**

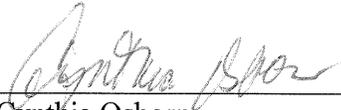
**THE CITY OF EL PASO**

\_\_\_\_\_  
Joyce Wilson  
City Manager

**CONSULTANT**  
Parkhill, Smith & Cooper, Inc.

By:   
\_\_\_\_\_  
Terry G. Bilderback, P.E.  
Vice President

**APPROVED AS TO FORM:**

  
\_\_\_\_\_  
Cynthia Osborn  
Assistant City Attorney

**APPROVED AS TO CONTENT:**

  
\_\_\_\_\_  
Alan Shubert, P.E.  
City Engineer

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ATTACHMENT A

CLINT LANDFILL MSW 1482  
FINAL CLOSURE PROJECT  
PHASE III - DRAINAGE IMPROVEMENTS

GENERAL DESCRIPTION: This project incorporates drainage improvements into the third and final phase of the final closure contract, which was originally adopted by the City of El Paso on May 3, 2005. The drainage improvements will be designed based on the evaluation and recommendations provided in a recent drainage study performed for the landfill. The drainage study was conducted to evaluate overall site drainage following Storm 2006 rain events.

SCOPE OF SERVICES: This project will include engineering design, bid and construction phase services for drainage improvements at the Clint Landfill, MSW-1482. The work is to be conducted in conjunction with the final closure. The project will include a site survey of existing drainage structures and surface topography, preparation of preliminary and final construction plans and technical specifications, and an opinion of probable construction cost. The bid documents will be incorporated with the final closure bid documents as one bid package. The construction phase services will include construction meetings, submittal review and approval, responses to requests for information, review of pay requests, construction oversight, part time Resident Project Representative (RPR) services, and record drawing preparation.

TIME OF COMPLETION: Upon written notice to proceed, work will begin on the preparation of plans and specifications to be included with the final closure plans and specifications for the bid package. The design documents will be provided according to the following schedule:

Preliminary Design Phase	76 Consecutive Work Days
Final Design Phase	26 Consecutive Work Days

The City of El Paso will provide written acceptance of the preliminary design documents prior to beginning the final design. Bid and construction phase services will be performed following project design in conjunction with the Closure Project schedule.

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## Exhibit A

### Scope of Engineering Design & Construction Phase Services Clint Landfill Drainage Improvements Project

#### Project Summary

The Clint Landfill suffered failures of some of the storm water drainage structures during the Storm 2006 rain event. As a result Parkhill, Smith & Cooper, Inc. (PSC) was retained by the City of El Paso, Environmental Services Department to perform an engineering drainage study of the landfill storm water retention and conveyance system. The drainage study assessed the storage and conveyance capacities of existing and known future storm water structures, identified deficient and/or surplus capacity and made recommendations for necessary improvements. The drainage study recommendations were based on protection against a 25 year storm event as required by TCEQ and as requested by the City of El Paso's Environmental Services Department.

The design of the Clint Landfill Drainage Improvements Project will take the improvements recommended in the Drainage Study and incorporate those necessary changes into a set of drawings and specifications that will subsequently be advertised and bid in conjunction with the closure project currently being designed by PSC for the MSW permit 1482.

#### Proposed Scope of Services

PSC proposes the following engineering services for design, bidding and construction phase services for the Clint Landfill Drainage Improvements Project:

##### Task 100 – Project Management

1. Setup & maintain project file system.
2. Setup work breakdown structure.
3. Review design progress internally and conduct periodic design team meetings.
4. Provide monthly progress reports.

##### Task 200 – Preliminary Design

1. Provide site survey of retention basins and associated channels to verify changed surface conditions and provide updated topography of current surface conditions for design.
2. Perform site visits for gathering design information.
3. Prepare Preliminary design of project drawings.
4. Prepare Preliminary design of project technical specifications. No front end contract documents will be prepared.
5. Coordinate with City of El Paso Engineering Department as needed.
6. Coordinate with contractors and suppliers on current construction costs.
7. Prepare a Preliminary opinion of probable construction cost.
8. Perform internal QC peer review of Preliminary drawings and technical specifications.
9. Incorporate comments from Preliminary QC review.

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10. Submit half size review sets of Preliminary drawings and technical specifications to entities as required:
  - a. City of El Paso
  - b. Gas company
  - c. El Paso Electric
11. Submit five (5) half size review sets of Preliminary drawings and technical specifications (11"x17" drawings sheets and letter size project technical specifications) to the City of El Paso Environmental Services Department for review and comment.
12. Conduct Preliminary review meeting to discuss Environmental Services comments.
13. Prepare Preliminary review meeting minutes.

**Task 300 – Final Design**

1. Incorporate comments into drawings and technical specifications from Preliminary review meeting.
2. Perform final site visit and project verification.
3. Prepare Final design of project drawings.
4. Prepare Final design of project technical specifications. No front end contract documents will be prepared.
5. Coordinate with City of El Paso Engineering department as needed.
6. Prepare a Final opinion of probable construction cost.
7. Perform internal QC peer review of Final drawings and technical specifications.
8. Incorporate comments from Final QC review.
9. Submit half size sets of Final drawings and technical specifications to entities as required:
  - a. City of El Paso
  - b. Gas company
  - c. El Paso Electric
10. Submit thirty (30) bound sets of full size drawings (24" x 36") and project technical specifications (8.5" x 11" letter size with no front end contract documents). Also submit one (1) bid proposal form to include bid item descriptions, units, quantity and extension in spreadsheet format along with project summary statement.

**Task 400 – Bid Phase**

1. Answer questions from bidders.
2. Attend City council meeting for project award.

**Task 500 – Construction Phase Services**

1. Setup & conduct pre-construction meeting.
2. Setup & maintain construction file and submittal file system.
3. Submittal review and approval.
4. Respond to Contractor RFI's.
5. Overall construction management & support.
6. Review / recommend pay requests.

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7. Monthly progress reports.
8. Site visits.
9. Construction progress meetings.
10. Final project walkthrough.
11. Record drawing preparation.
12. Part time RPR services as needed above and beyond full time RPR for closure project.

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March 4, 2008

Mr. John D. Garza, P.E.  
Environmental Services  
City of El Paso  
7969 San Paulo Dr.  
El Paso, TX 79907

APPROVED BY ENVIRONMENTAL SERVICES  
ENVIRONMENTAL MANAGEMENT

RE: Fee Proposal – Revision Two  
Clint Landfill Drainage Improvements  
Engineering Consulting Services

*John D. Garza* 3-14-08  
Signature Date

Dear Mr. Garza:

Parkhill, Smith & Cooper, Inc. (PSC) is pleased to provide our revised proposal for drainage improvements for the Clint Landfill. We understand that this will be an amendment to our existing agreement with the City for the Clint Landfill Closure MSW – Permit No. 1482 Project.

The hours for project management and preliminary design were adjusted as previously discussed and the RPR portion of construction phase services is being proposed as an hourly rate to be paid on a time and materials utilized basis.

FEE PROPOSAL SUMMARY:

1) Basic Engineering Services	\$167,587.00
2) RPR Services	\$ 66,498.00
3) Topographic Surveys	\$ 21,869.00
4) Materials Testing	\$ 17,865.00
Total Fee Proposal	\$273,819.00

Fee Split by Task:

1) Project Management	\$ 9,743.00
2) Preliminary Design	\$115,651.00
3) Final Design	\$ 31,216.00
4) Bid Phase Assistance	\$ 1,436.00
5) Basic Construction Phase Services	\$ 25,650.00
6) RPR Services	\$ 66,498.00
7) Construction Phase Testing and Surveys	\$ 23,625.00
	\$273,819.00

**Parkhill, Smith & Cooper, Inc.**

Engineers • Architects • Planners  
810 E. Yandell, El Paso, Texas 79902  
(915) 533-6811 FAX (915) 544-2059

Lubbock

El Paso

Midland

Amarillo

Odessa

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Personnel included in fee proposal:

- 1) Principal-in-Charge Terry G. Bilderback, P.E.
- 2) QA/QC Engineer J. Pat Conover, P.E.
- 3) Project Manager Robert W. Redding, P.E.
- 4) Project Engineer R. Matt Dyer, P.E.
- 5) Design Engineer Sandra Hernandez, P.E.

APPROVED BY ENVIRONMENTAL SERVICES  
Backup for our proposal is attached, including the following:

- 1) Exhibit A – Scope of Engineering Design, & Construction Phase Services (three pages).
- 2) Detail of total fee entitled Parkhill, Smith & Co oper, Inc. Project Budget Sheet (six pages).
- 3) Detail listing of testing and surveying costs (three pages).
- 4) Composite Project Schedule (one page).

Please let us know if you have any further needs or questions.

Sincerely,

PARKHILL, SMITH & COOPER, INC.

By R. Matt Dyer  
R. Matt Dyer, P.E.

Attachments

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**PARKHILL, SMITH & COOPER, INC.**  
**PROJECT BUDGET SHEET**

LOCATION CODE: 02  
 PROJECT NAME: Clint Landfill Drainage Improvements  
 JOB NO.: \_\_\_\_\_  
 TASK: DBC  
 DATE: 03/04/08



FEE TYPE: Lump Sum  
 PREPARED BY: RMD  
 PRINCIPAL: TGB  
 PROJ. MANAGER: RMD

OVERHEAD RATE: \_\_\_\_\_  
 PROFIT ON LABOR: \_\_\_\_\_  
 PROFIT ON REIMB: \_\_\_\_\_  
 PROFIT ON DIRECTS: 10.00%

TOTAL FEE:	<u>\$183,696</u>	LABOR:	<u>\$155,847</u>
LABOR:	<u>\$155,847</u>	DIRECTS:	<u>\$27,850</u>
OVERHEAD:	_____	SUBTOTAL:	<u>\$183,696</u>
REIMB. CONSULTANTS:	_____	REIMB. FEE:	_____
REIMB. EXPENSES:	_____		
DIRECT CONSULTANTS:	<u>\$16,109</u>	TOTAL FEE:	<u>\$183,696</u>
DIRECT EXPENSES:	<u>\$9,209</u>		

**LABOR BUDGETS:**

CODE	DESCRIPTION	HOURS	COSTS
01	Firm Principal	27	\$4,037
03	Engineer	8	\$1,056
03	Engineer	141	\$18,612
03	Engineer	430	\$43,860
03	Engineer	74	\$7,548
07	Engineer-in-Training	458	\$39,617
14	CADD Operator	577	\$39,236
18	Clerical	33	\$1,881

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FEE ESTIMATING SHEET

PROJECT: Clint Landfill Drainage Improvements JOB NO.:

TASK: DBC

SALARY

CATEGORY OF PERSONNEL  
RATE PER HOUR

TASK	Trips	TGB	JPC	RWR	RMD	SH	EIT	CADD OPT	CLERICAL	TOTAL	
		FP 01	ENG 03	ENG 03	ENG 03	ENG 03	ENG 03	07	14		18
<b>Project Management</b>											
Develop file system and work breakdown structure				2	4					1	7
Maintain project management		8		4	12						24
Team meetings				6	6	6	6	6			30
Progress reporting		6		4	12					6	28
<b>Prel Design</b>											
Prel design	3			90	210	55	275	375		2	1,007
Develop qty & cost opinion					8		24				32
QC		1	4	4							9
Incorporate QC					1		4	8			13
Submit to Environmental Services Dept.				1	2		2	4		1	10
Submit to other entities					1					1	2
Review meeting	2	3		3	3	3	3				15
<b>Final Design</b>											
Incorporate comments from Prel Dsgn review					1		2	4			7
Coordinate with submitted entities					4		12				16
Final Design	1			20	40	10	50	90			210
Assess bidding environment and drum up bidders			2		2						4
Update qty & cost opinion					4		8				12
QC		1	2	2							5
Incorporate QC					1		3	6			10
Submit to Environmental Services Dept.				1	4		2	4		2	13
Submit to other entities					1					1	2
<b>Bid Phase</b>											
Answer bidder questions					8						8
Attend city council meeting for award	1				3					3	11
<b>Construction Phase Services</b>											
Precon reviews	2				3		3				6
Setup & maintain construction/submittal filing									4		4
Submittals					8		16				24
Respond to RFI					8		16			4	28
Construction management		8			24						32
Review/Recommend pay requests					4						4
Monthly reports					4						4
Site visits	8			4	16		16				36
Construction meetings	8				16		16				32
Final walk through	2				4						4
Project closeout	1				4					8	12
Record drawings					12			80			92
<b>BUDGET SUBTOTALS:</b>		HOL Trips - 28	27	8	141	430	74	458	577	33	1748
		SALARY	\$4,037	\$1,056	\$18,612	\$43,860	\$7,548	\$39,617	\$39,236	\$1,881	\$155,847

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FEE ESTIMATING SHEET		PROJECT:	Clint Landfill Drainage Impr	JOB NO.:	TASK:	DBC
<b>DIRECTS</b>						
<b>DIRECT CONSULTANT COSTS</b>						<b>SUBTOTAL</b>
611 STRUCTURAL CONSULTANTS						
612 MECH/ELEC CONSULTANTS						
613 ENV & CIVIL CONSULTANTS						
614 LANDSCAPE CONSULTANTS						
615 TESTING CONSULTANTS						
616 SURVEYING CONSULTANTS						\$16,109
617 INTERIOR DESIGN CONSULTANTS						
618 OTHER CONSULTANTS						
<b>TOTAL DIRECT CONSULTANTS</b>						<b>\$16,109</b>
<b>DIRECT EXPENSES</b>						
621 TRAVEL/LODGING						
MOTEL	DAYS @		MEN @	/MANDAY	=	
AIR TRAVEL	AIR FARE @		MEN @	/MAN	=	
PARKING	DAYS @		/DAY		=	
CAR RENTAL	DAYS @		/DAY		=	
MILEAGE	60 MILES @	\$0.505	@	28 TRIPS	=	\$848.40
SUBTOTAL						\$848
622 REPRODUCTIONS						
BLUELINE PRINTS	40	SHTS @	\$2.55	@	60 SETS =	\$6,120.00
SEPIA PRINTS	40	SHTS @	\$8.51	@	1 SETS =	\$340.40
PRINTING:						
ORIGINAL SET-UP COST		ORIGINALS	@	\$0.15 /ORI.	=	
COST PER SHEET	60	SETS @	\$0.08	/SHT @	175 SHEETS =	\$840.00
BINDING COST	60	SETS @	\$2.00	/SET	=	\$120.00
XEROX	2000	SHTS @	\$0.08	/SHT	=	\$160.00
SUBTOTAL						\$7,580
623 MODEL/RENDERINGS/PHOTOS						
				Shots @	/Shot	
624 TELEPHONE						
	100	Calls @	\$5.00	/Call		\$500
625 MEALS						
		DAYS @		MEN @	/MANDAY	
626 FIELD SUPPLIES						
628 POSTAGE						
	9	Mailings @	\$20.00	/Mailing		\$180
629 PUBLICATIONS & SUBSCRIPTIONS						
630 MISC DIRECT EXP						
631 FAX						
	100	Pages @	\$1.00			\$100
632 TEMPORARY PERSONNEL						
633 DRAFTING SUPPLIES						
634 OFFICE SUPPLIES						
635 CADD						
	577	HOURS @		/HOUR		
636 FIELD EQUIP RENTAL						
646 SOFTWARE						
<b>TOTAL DIRECT EXPENSES</b>						<b>\$9,209</b>

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CITY CLERK DEPT

**PARKHILL, SMITH & COOPER, INC.**  
**PROJECT BUDGET SHEET**

LOCATION CODE: 02  
 PROJECT NAME: Clint Landfill Drainage Improvements  
 JOB NO.: \_\_\_\_\_  
 TASK: RPR  
 DATE: 03/04/08



FEE TYPE: Hourly Rate  
 PREPARED BY: RMD  
 PRINCIPAL: TGB  
 PROJ. MANAGER: RMD  
 OVERHEAD RATE: \_\_\_\_\_  
 PROFIT ON LABOR: \_\_\_\_\_  
 PROFIT ON REIMB: 10.00%  
 PROFIT ON DIRECTS: \_\_\_\_\_

TOTAL FEE:	<u>\$90,123</u>	LABOR:	<u>\$60,983</u>
LABOR:	<u>\$60,983</u>	DIRECTS:	_____
OVERHEAD:	_____	SUBTOTAL:	<u>\$60,983</u>
REIMB. CONSULTANTS:	<u>\$23,625</u>	REIMB. FEE:	<u>\$29,141</u>
REIMB. EXPENSES:	<u>\$2,866</u>	TOTAL FEE:	<u>\$90,123</u>
DIRECT CONSULTANTS:	_____		
DIRECT EXPENSES:	_____		

**LABOR BUDGETS:**

CODE	DESCRIPTION	HOURS	COSTS
01	Firm Principal		
03	Engineer		
07	Engineer-in-Training	705	\$60,983
14	CADD Operator		
18	Clerical		

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TASK	Trips	CATEGORY OF PERSONNEL								TOTAL	
		RATE PER HOUR									
		TGB FP 01	JPC ENG 03	RWR ENG 03	RMD ENG 03	SH ENG 03	EIT 07	CADD OPT 14	CLERICAL 18		
Construction Representation	88	\$149.50	\$132.00	\$132.00	\$102.00	\$102.00	\$86.50	\$68.00	\$57.00	705	705

BUDGET SUBTOTALS:	HOL Trips - 88	SALARY	705	\$60,983	705	\$60,983
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FEE ESTIMATING SHEET		PROJECT:	Clint Landfill Drainage Impr.	JOB NO.:	TASK:	PPR
REIMBURSABLES						
REIMBURSABLE CONSULTANT COSTS						SUBTOTAL
511 STRUCTURAL CONSULTANTS						
512 MECH/ELEC CONSULTANTS						
513 ENV & CIVIL CONSULTANTS						
514 LANDSCAPE CONSULTANTS						
515 TESTING CONSULTANTS						\$17,865
516 SURVEYING CONSULTANTS						\$5,780
517 INTERIOR DESIGN CONSULTANTS						
518 OTHER CONSULTANTS						
TOTAL REIMBURSABLE CONSULTANTS						\$23,625
REIMBURSABLE EXPENSES						
521 TRAVEL/LODGING						
MOTEL						
AIR TRAVEL	DAYS @	MEN @	/MANDAY	=		
PARKING	AIR FARE @	MEN @	/MAN	=		
CAR RENTAL	DAYS @	/DAY		=		
MILEAGE	DAYS @	/DAY		=		
	60 MILES @	\$0.505 @	88 TRIPS	=	\$2,666.40	
SUBTOTAL						\$2,666
522 REPRODUCTIONS						
BLUELINE PRINTS		SHTS @	\$2.55 @	SETS =		
SEPIA PRINTS		SHTS @	\$8.51 @	SETS =		
PRINTING:						
ORIGINAL SET-UP COST		ORIGINALS @	\$0.15 /ORI.	=		
COST PER SHEET		SETS @	\$0.08 /SHT @	SHEETS =		
BINDING COST		SETS @	\$2.00 /SET	=		
XEROX		SHTS @	\$0.08 /SHT	=		
SUBTOTAL						
523 MODEL/RENDERINGS/PHOTOS						
		Shots @	/Shot			
524 TELEPHONE						
		Calls @	/Call			
525 MEALS						
		DAYS @	MEN @	/MANDAY		
526 FIELD SUPPLIES						\$200
528 POSTAGE						
		Mailings @	/Mailing			
529 PUBLICATIONS & SUBSCRIPTIONS						
530 MISC REIMBURSABLE EXP						
531 FAX						
		Pages @				
532 TEMPORARY PERSONNEL						
533 DRAFTING SUPPLIES						
534 OFFICE SUPPLIES						
535 CADD						
		HOURS @	/HOUR			
536 FIELD EQUIP RENTAL						
546 SOFTWARE						
TOTAL REIMBURSABLE EXPENSES						\$2,866

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Clint Landfill  
 Drainage Improvements  
 Materials Testing & Surveys  
 2/13/2008

Channel Length 15,000 LF  
 Overflow Structures 5 ea.  
 Concrete Volume 10,500 CY

**MATERIALS TESTING**

	#	Unit Cost	Amount
Sieve Analysis	3 set	\$40.00	\$120
Atterburg Limits	3 set	\$40.00	\$120
Proctor	3 set	\$125.00	\$375
Field Densities	150 each	\$25.00	\$3,750
Concrete Cylinders	60 set	\$120.00	\$7,200
Soundness - Aggregate	5 set	\$250.00	\$1,250
Technician time	75 hour	\$50.00	\$3,750
Mileage	50 trip	\$26.00	\$1,300
			<u>\$17,865</u>

**SURVEYS**

Geodetic Quote			\$13,805
Design Surveys	2 days	\$1,152.00	\$2,304
Construction Period Verification/Checks	5 days	\$1,152.00	<u>\$5,760</u>
			<u>\$21,869</u>

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# GEODETIX, INC. QUICK-QUOTE

PH. 1-800-555-5042 / 210-829-8337  
FAX. 210-829-8068

TO: Mr. Holly Holder - Parkhill, Smith & Cooper - Lubbock

DATE: 2/8/2008

FROM: Mike Dooley

PROPOSAL#: P28017

REF./PROJECT: Clint Landfill - El Paso, Texas - 340 +/- acres

SERVICE or PRODUCT 1" = 50' TOPO with 1' CONTOUR INTERVAL

## FEE

### FLY NEW AERIAL PHOTOGRAPHY:

BLACK & WHITE	\$5,500
COLOR	not quoted
ADDITIONAL SPOT SHOTS (HIGH ALTITUDE)	\$250

### CONTROL: (GROUND CONTROL SURVEY BY GPS)

not quoted

COMMENTS: Geodetix to utilize existing control from the 2007 project

### AEROTRIANGULATION:

\$1,155

### MAPPING: (CONTOURS & PLAN COMPILATION)

\$6,100

COMMENTS: DTM data to be compiled and delivered as separate .dwg and ASCII files

### OTHER PHOTO OR MAP PRODUCTS:

PHOTO ENLARGEMENTS (APPROX. \$300.00 EACH)	not quoted
DIGITAL ORTHOPHOTOS (APPROX. \$400.00 EACH)	\$800
DIGITAL IMAGES - RAW SCANS (APPROX. \$25.00 EACH)	not quoted
MISCELLANEOUS	not quoted

### PLOTS:

BOND (APPROX. \$35.00 EACH)	not quoted
INK ON MYLAR (APPROX. \$75.00 EACH)	not quoted
PHOTO (APPROX. \$150.00 EACH)	not quoted

1"=50' Mapping/1' Contour Interval/0.5' Color Orthophotography

TOTAL: **\$13,805**

PLEASE NOTE: SCHEDULE IS FOR NORMAL DELIVERY - NOT A RUSH JOB.

DELIVERY PRODUCTS: GENERALLY ONE (1) BOND PLOT AND ONE (1) AUTOCAD DRAWING ON CD-ROM.

DELIVERY TIME: TYPICALLY TYP 15 DAYS FOR THE PHOTO MISSION (WEATHER DEPENDENT)

TYP 4-6 WEEKS FOR COMPILATION AFTER RECEIPT OF PHOTOGRAPHY

#### COMMENTS:

**\*\*FORMAL PROPOSAL FURNISHED UPON REQUEST\*\***

TERMS ARE DUE UPON RECEIPT OF INVOICE.

NOTE: IF PAYMENT IS CONTINGENT UPON RECEIPT FROM YOUR CLIENT, WE PREFER TO HAVE PAYMENT BEFORE DELIVERY OF FINAL DIGITAL FILE. ALL OTHER ARRANGEMENTS ARE NEGOTIABLE.

IF THE ABOVE CONTRACT IS ACCEPTABLE TO YOU, PLEASE SIGN BELOW AND THIS DOCUMENT WILL SERVE AS THE CONTRACT.

ACCEPTING PARTY

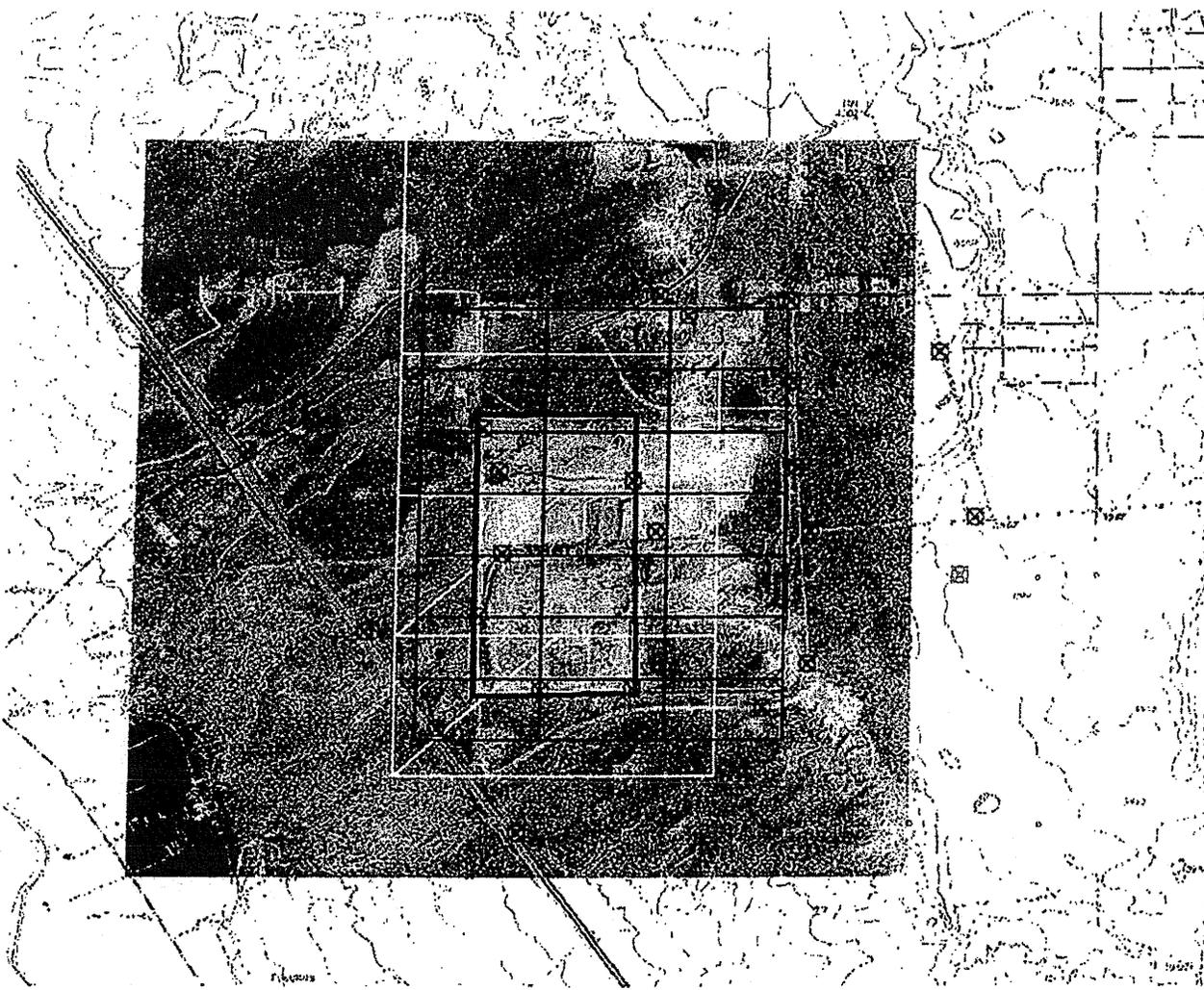
DATE

MICHAEL J DOOLEY  
GEODETIX, INC.  
MANAGER

DATE

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**PSC-LUBBOCK\_Clint-2008\_P28017**  
**Flight Map and Ground Control Schematic**

- Blue Polygons: 1"=330' New Aerial Photography
- Yellow Polygons: 1"=800' Color Spot Shots
- Red Circle "X" Symbols: Existing 2007 Control

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